

- Sub D37
- c. the liquid passageway downstream and adjacent to the mixing of the ozone-containing gas with the liquid being formed as an upflow chamber so that [in which] bubbles of the ozone-containing gas entrained in the liquid rise within and to the level of an initial flow of liquid rising in the upflow chamber at the beginning of the purification cycle so that a leading volume of liquid flow is contacted with ozone early in its advance through the passageway; and
- d. the liquid flow passageway downstream of the upflow chamber being configured to ensure sufficient contact between ozone and the liquid to purify the liquid before it reaches the dispenser.

21. (TWICE AMENDED) A method of purifying a batch of liquid with ozone [from a generator producing an ozone-containing gas that is mixed with a batch of the liquid flowing once through a passageway extending from an untreated liquid container to a purified liquid dispenser] wherein the batch of liquid is released from a storage container and is mixed with an ozone-containing gas produced from a generator to form a liquid/ozone mixture, wherein the mixture is conveyed through a passageway to produce a purified batch of liquid that can flow out of the purifier through a dispenser, the method comprising:

- a. after mixing the ozone-containing gas with liquid flow commencing at the beginning of the batch purification cycle, directing the liquid and ozone mixture in an upflow chamber in which an initial flow of liquid rises as bubbles of ozone-containing gas rise at a faster rate to overtake the preceding liquid so that a leading volume of liquid flow is contacted with ozone early in its advance through the passageway; and
- b. blocking entry of untreated liquid into the passageway except when the purifier is purifying liquid flow.

Sub D47

39. (TWICE AMENDED) A liquid purifier combining an unpurified liquid batch container, a liquid flow passageway leading from the container to a purified liquid dispensing outlet, a generator producing an ozone-containing gas, and a pumping system [flowing the liquid once through the passageway and combining the ozone-containing gas with the liquid to purify the liquid en route to the outlet], wherein a batch of unpurified liquid from the container is mixed with the ozone-containing gas from the generator to form a liquid/ozone

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